

What is claimed is:

1. An evaporation device for evaporating volatile substances such as insecticides and aromatics comprising:

a housing containing a heating block with at least two heating elements having  
5 different heating capacities;

a container for a volatile substance to be evaporated;

a wick having a wick end protruding out of said container into a wick opening  
in said heating block;

a control device for the activation and deactivation of said heating elements;  
10 and

said control device having a plurality of heat settings to vary the heat produced  
by the heating elements so the evaporation of the volatile substance may be  
controlled.

2. The device of claim 1 wherein said heating elements are operatively  
15 connected to said control device so that one or more of said heating elements may  
be selectively activated and deactivated to adjust the degree of evaporation.

3. The device of claim 1 wherein said heating elements are connected via  
electrical lines to a connection plug, and said control device is installed in said  
housing.

20 4. The device of claim 1 wherein said wick opening is formed in a central  
area of said heating block between two parallel aligned heating elements.

5. The device of claim 4 wherein said heating elements are spaced an  
equal distance from said wick opening so that a symmetric placement of said heating

elements relative to said wick opening is achieved.

6. The device of claim 1 including at least one additional wick opening in said heating block assigned to at least one heating element; said additional wick opening being assigned to an additional container having a wick with a wick end 5 extending into said additional wick opening for the evaporation of the substance contained in the additional container.

7. The device of claim 6 wherein said wick openings are spaced a distance from each other in a central area between said heating elements; said heating elements being disposed near the edge of said heating block.

10 8. The device of claim 6 including a single container having a first and second separate chamber, each chamber capable of containing a different substance to be evaporated, and said second chamber constitutes said additional container.

9. The device of claim 6 including at least one separator disposed in the area between said wick openings to achieve at least partial thermal uncoupling 15 between wick openings and assigned heating elements.

10. The device of claim 9 wherein said separator includes an air gap extending through said heating block in the area between said wick openings.

11. The device of claim 1 wherein said heating elements comprise electrical resistance elements carried by said heating block.

20 12. The device of claim 11 wherein said resistance elements have different resistance values in order to make different heating capacities available for different volatile substances.

13. The device of claim 11 wherein said electrical resistance elements

include rod-shaped, cylindrical resistance body to provide an overall miniaturized heating device for the evaporation of volatile substances; said rod-shaped resistance body being at least partially coated with a resistance layer to allow for the adjustment of a given resistance value corresponding to the evaporation temperature adapted to  
5 the composition of the substance to be evaporated; and said resistance layer being ground into said resistance body.

14. The device of claim 13 including a helicoidal spiral cut into said resistance lay of said rod-shaped, cylindrical resistance body to produce a given resistance value corresponding to the evaporation temperature adapted to the  
10 composition of the substance to be evaporated.

15. The device of claim 11 wherein said electrical resistance elements are encapsulated in said heating block by highly heat-conductive material; said heating block including openings through which electrical lines are passed to said connection plug and switching device.

16. The device of claim 1 wherein said control device includes one of a manual switch and a programmable microprocessor.

17. The device of claim 1 wherein said housing has an upper shell and a lower shell connected by locking elements; said lower shell having a connection member for connecting said container to said housing; and an aeration slit located  
20 above said wick ends so that evaporated volatile substance may escape.

18. An evaporation device for evaporating volatile substances such as insecticides and aromatics comprising:

a housing containing a heating block with a plurality of heating elements having

different heating capacities;

a plurality of containers for a volatile substance to be evaporated;

a plurality of wick openings formed in said heating block;

a plurality of wicks having wick ends protruding out of said containers into said  
5 wick openings;

a control device for the activation and deactivation of said heating elements to  
adjust the heat produced by the heating elements and the evaporation of the volatile  
substance.

19. The device of claim 18 wherein said heating elements are operatively  
10 connected to said control device so that one or more of said heating elements may  
be selectively activated and deactivated to adjust the evaporation.

20. The device of claim 18 wherein said wick opening is formed in a central  
area of said heating block between two parallel aligned heating elements.

21. The device of claim 20 wherein said heating elements are spaced an  
15 equal distance from said wick opening so that a symmetric placement of said heating  
elements relative to said wick opening is achieved.

22. The device of claim 18 wherein said wick openings are spaced a  
distance from each other in a central area between said heating elements; said  
heating elements being disposed near the edge of said heating block.

20 23. The device of claim 18 including at least one separator disposed in the  
area between said wick openings to achieve at least partial thermal uncoupling  
between wick openings and assigned heating elements.

24. The device of claim 23 wherein said separator includes an air gap

extending through said heating block in the area between said wick openings.

25. The device of claim 18 wherein said heating elements comprise electrical resistance elements having different resistance values in order to control the evaporation rate for different volatile substances.

5        26. The device of claim 25 wherein said electrical resistance elements include rod-shaped, cylindrical resistance body to provide an overall miniaturized heating device for the evaporation of volatile substances; said rod-shaped resistance body being at least partially coated with a resistance layer to allow for the adjustment of a given resistance value corresponding to the evaporation temperature adapted to  
10 the composition of the substance to be evaporated; and said resistance layer being ground into said resistance body.

27. The device of claim 26 including a helicoidal spiral cut into said resistance lay of said rod-shaped, cylindrical resistance body to produce a given resistance value corresponding to the evaporation temperature adapted to the  
15 composition of the substance to be evaporated.

28. The device of claim 18 wherein said control device includes one of a manual switch and a programmable microprocessor.